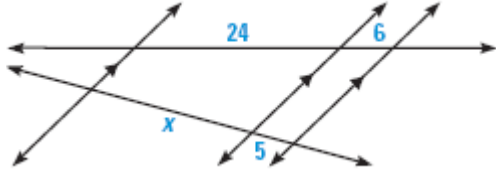


Geometry Final Review 2

1. What is your name?

2. Find the value of the variable. *(Chapter 8 Section 6)*

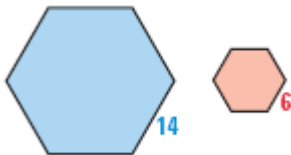


3. If the ratios of the sides of two similar shapes have the ratio of $a:b$, what is the ratio of the perimeters? *(Chapter 11 Section 3)*

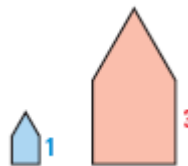
4. If the ratios of the sides of two similar shapes have the ratio of $a:b$, what is the ratio of the areas? *(Chapter 11 Section 3)*

The polygons are similar. Find the ratio of their perimeters and of their areas. *(Chapter 11 Section 3)*

5.



6.



7.



Geometry Final Review 2

8. The ratio of the perimeters of two similar hexagons is 5: 8. The area of the larger hexagon is 320 square inches. What is the area of the smaller hexagon? *(Chapter 11 Section 3)*

9. If the ratio of two complementary angles is 3:7, what is the measure of the smaller angle? *(Chapter 1 Section 6)*

Find the probability that a point K , selected randomly on \overline{MN} , is on the given segment. *(Chapter 11 Section 6)*



10. \overline{AB}

11. \overline{AD}

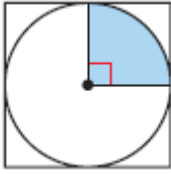
12. \overline{MA}

13. \overline{MD}

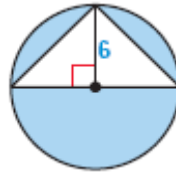
Geometry Final Review 2

Find the probability that a randomly chosen point in the figure lies in the shaded region. *(Chapter 11 Section 6)*

14.



15.



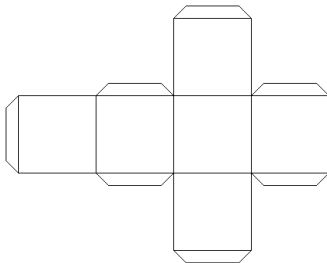
16. Compare and contrast pyramids & prisms. *(Chapter 12 Section 1)*

17. Compare and contrast cones & cylinders. *(Chapter 12 Section 1)*

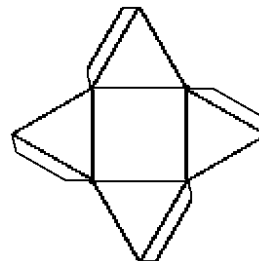
18. What is a lateral face? *(Chapter 12 Section 1)*

What solid shape is pictured below? *(Chapter 12 Section 1)*

19.

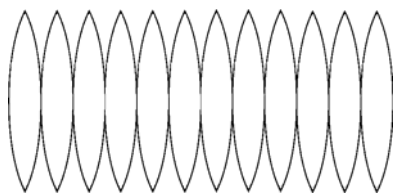


20.

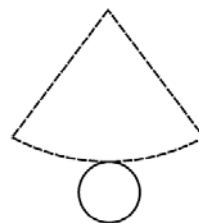


Geometry Final Review 2

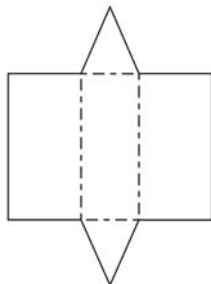
21.



22.



23.



Use the Distance Formula to find \overline{HM} & \overline{ML} . (Chapter 1 Section 3)

$$H(-1,3)$$

$$H(3,-1)$$

24. $M(1,7)$

25. $M(8,2)$

$$L(3,3)$$

$$L(3,5)$$

$$H(-5,2)$$

26. $M(-4,6)$

$$L(6,-2)$$

Geometry Final Review 2

Find the coordinates of the midpoint of a segment with the given endpoints. *(Chapter 1 Section 5)*

27. $P(-4, 2)$ & $Q(8, -4)$

28. $P(-1, 3.5)$ & $Q(7, -5.5)$

29. $P(-12, 4)$ & $Q(-3, -6)$

Find the slopes of \overline{AB} , \overline{CD} , & \overline{EF} . Which lines are parallel, if any?

(Chapter 3 Section 6)

30. $A(3,7), B(1,5)$

$C(4,1), D(9,6)$

$E(2,5), F(-8,-5)$

$A(-4,1), B(3,1)$

31. $C(-2,-1), D(4,-3)$

$E(-10,3), F(4,-8)$

$A(-3,2), B(-3,5)$

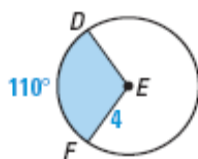
32. $C(7,-1), D(7,7)$

$E(4,-11), F(4,-6)$

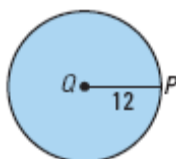
Geometry Final Review 2

Find the area of the shaded region. (Chapter 11 Section 5)

33.



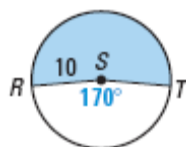
34.



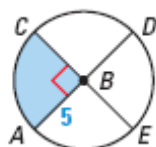
35.



36.

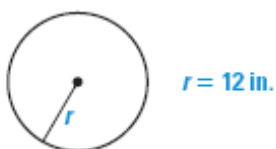


37.



Find the indicated measure. (Chapter 11 Section 4)

38. Circumference



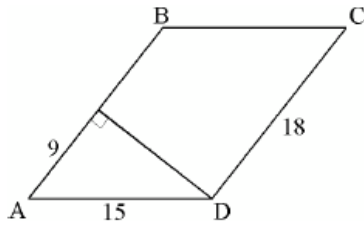
39. Radius



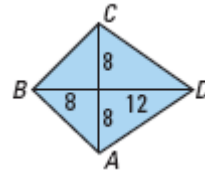
Geometry Final Review 2

Find the area of the polygon. (Chapter 6 Section 7)

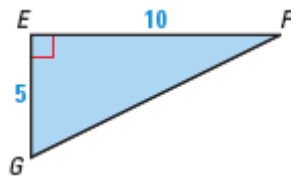
40.



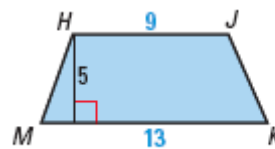
41.



42.



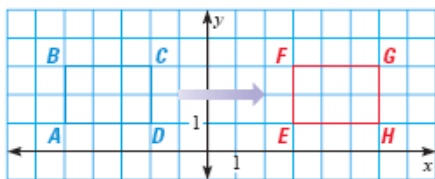
43.



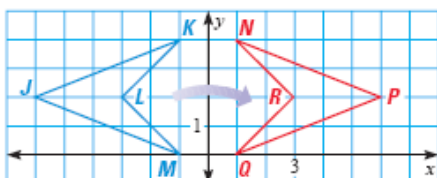
44. The diagonal of a square is 6 cm, what is the area of the square? (Chapter 6 Section 7)

Name and describe the transformation. Then name the coordinates of the vertices of the image. (Chapter 7 Section 1)

45.



46.



Geometry Final Review 2

47. The translation $T(x, y) \rightarrow (x + 3, y - 4)$ maps points $M(-1, 3)$, $N(2, -4)$, $P(0, 1)$, and $Q(-3, -5)$ onto the points M' , N' , P' , and Q' . State the coordinates of M' , N' , P' , & Q' . (Chapter 7 Section 4)

Find the coordinates of the reflection. (Chapter 7 Section 2)

48. $M(5, 2)$ reflected in the x -axis.

49. $N(-2, 4)$ reflected in the y -axis.

50. $P(1, 8)$ reflected in the line $y = x$.

51. $Q(1, 12)$ reflected in the x -axis.

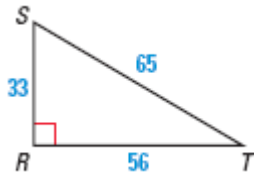


Geometry Final Review 2

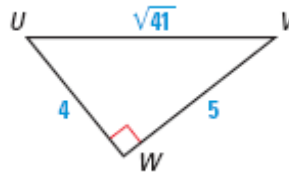
Find the sine, the cosine, and the tangent of the acute angles of the triangle. Express each value as a simplified fraction. (Chapter 9

Section 5)

52.



53.



54.

